

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

- 1           1. (Currently amended) A method to facilitate debugging computer code  
2     within an operating system kernel, comprising:  
3         receiving a source file containing a data structure definition, wherein the  
4     data structure definition defines storage requirements for a data structure;  
5         searching the source file for the data structure definition;  
6         upon finding the data structure definition, saving the data structure  
7     definition in a storage structure;  
8         generating a new source code to display a data structure, wherein the new  
9     source code is created using the data structure definition;  
10        compiling the new source code into an executable module;  
11        installing the executable module into a modular debugger; and  
12        during execution of the modular debugger, displaying a content of the data  
13     structure to a user of the modular debugger using the executable module, whereby  
14     the user is able to view the content of the data structure.
- 1           2. (Original) The method of claim 1, wherein receiving the source file  
2     includes receiving a plurality of source files.
- 1           3. (Original) The method of claim 1, wherein the source file contains a  
2     plurality of data structures.

1           4. (Original) The method of claim 3, wherein saving the data structure  
2 definition in the storage structure includes saving the plurality of data structures in  
3 the storage structure.

1           5. (Original) The method of claim 3, wherein generating the new source  
2 code includes:  
3           examining the plurality of data structures in the storage structure to locate  
4 a cross-reference between data structures; and  
5           generating the new source code for the plurality of data structures.

1           6. (Original) The method of claim 5, wherein generating the new source  
2 code includes generating source code to walk a linked list of data structures.

1           7. (Original) The method of claim 6, wherein displaying the content of the  
2 data structure includes displaying the content of the linked list of data structures.

1           8. (Original) The method of claim 1, wherein the data structure definition  
2 includes one of a tree, a linked list, a doubly linked list, and a queue.

1           9. (Currently amended) A computer-readable storage medium storing  
2 instructions that when executed by a computer cause the computer to perform a  
3 method to facilitate debugging computer code within an operating system kernel,  
4 the method comprising:  
5           receiving a source file containing a data structure definition, wherein the  
6 data structure definition defines storage requirements for a data structure;  
7           searching the source file for the data structure definition;  
8           upon finding the data structure definition, saving the data structure  
9 definition in a storage structure;

10           generating a new source code to display a data structure, wherein the new  
11   source code is created using the data structure definition;  
12           compiling the new source code into an executable module;  
13           installing the executable module into a modular debugger; and  
14           during execution of the modular debugger, displaying a content of the data  
15   structure to a user of the modular debugger using the executable module, whereby  
16   the user is able to view the content of the data structure.

1           10. (Original) The computer-readable storage medium of claim 9, wherein  
2   receiving the source file includes receiving a plurality of source files.

1           11. (Original) The computer-readable storage medium of claim 9, wherein  
2   the source file contains a plurality of data structures.

1           12. (Original) The computer-readable storage medium of claim 11,  
2   wherein saving the data structure definition in the storage structure includes  
3   saving the plurality of data structures in the storage structure.

1           13. (Original) The computer-readable storage medium of claim 11,  
2   wherein generating the new source code includes:  
3           examining the plurality of data structures in the storage structure to locate  
4   a cross-reference between data structures; and  
5           generating the new source code for the plurality of data structures.

1           14. (Original) The computer-readable storage medium of claim 13,  
2   wherein generating the new source code includes generating source code to walk a  
3   linked list of data structures.

1           15. (Original) The computer-readable storage medium of claim 14,  
2    wherein displaying the content of the data structure includes displaying the  
3    content of the linked list of data structures.

1           16. (Original) The computer-readable storage medium of claim 9, wherein  
2    the data structure definition includes one of a tree, a linked list, a doubly linked  
3    list, and a queue.

1           17. (Currently amended) An apparatus to facilitate debugging computer  
2    code within an operating system kernel, comprising:

3           a receiving mechanism that is configured to receive a source file  
4    containing a data structure definition, wherein the data structure definition defines  
5    storage requirements for a data structure;

6           a search mechanism that is configured to search the source file for the data  
7    structure definition;

8           a saving mechanism that is configured to save the data structure definition  
9    in a storage structure;

10          a generating mechanism that is configured to generate a new source code  
11    to display a data structure, wherein the new source code is created using the data  
12    structure definition;

13          a compiling mechanism that is configured to compile the new source code  
14    into an executable module;

15          an installing mechanism that is configured to install the executable module  
16    into a modular debugger; and

17          a displaying mechanism that is configured to display a content of the data  
18    structure to a user of the modular debugger using the executable module, whereby  
19    the user is able to view the content of the data structure.

1           18. (Original) The apparatus of claim 17, wherein the receiving  
2   mechanism is further configured to receive a plurality of source files.

1           19. (Original) The apparatus of claim 17, wherein the search mechanism is  
2   further configured to search the source file for a plurality of data structures.

1           20. (Original) The apparatus of claim 19, wherein the saving mechanism is  
2   further configured to save the plurality of data structures in the storage structure.

1           21. (Original) The apparatus of claim 19, further comprising:  
2           an examining mechanism that is configured to examine the plurality of  
3   data structures in the storage structure to locate a cross-reference between data  
4   structures; and  
5           wherein the generating mechanism is further configured to generate the  
6   new source code for the plurality of data structures.

1           22. (Original) The apparatus of claim 21, wherein the generating  
2   mechanism is further configured to generate source code to walk a linked list of  
3   data structures.

1           23. (Original) The apparatus of claim 22, wherein the displaying  
2   mechanism is further configured to display the content of the linked list of data  
3   structures.

1           24. (Original) The apparatus of claim 17, wherein the data structure  
2   definition includes one of a tree, a linked list, a doubly linked list, and a queue.